Iowa Department of Natural Resources Wastewater Section Construction Permit Application SCHEDULE K2, Aerated Pond

DATE PREPARED		PROJECT IDENTITY					DNR USE		
							PROJECT	NO.	
DATE REVISED									
							PERMIT N	NO.	
1	Design Basis	ADW	AWW-30	M	WW	PHV	WW.		
1.	Flow, MO		AW W-30	IVI V	** **	1111	/ v • v		
	BOD ₅ , #		-	_					
2	No of soil boring	ra talcan Data	included in the						
2.		r elevation (MSL)							
	riigii giounuwate	i elevation (MSL)							
3. Top of dike elevation (MSL) ft 100 year flood elevation (MSL) ft							ft		
1 (1) 11 11 11 11 11 11 11 11 11 11 11									
4.			Cell	Cell	Cell		Cell		
		Pond Data	No. 1	No. 2	No. 3		No. 4	<u>Total</u>	
	Surface area @ maximum depth (A)								
	Maximum ope	eration depth (ft)							
	Minimum ope	ration depth (ft)							
		ige volume (MG)							
		ntion time (days)							
	Air Requireme								
	Provided (ft								
	Provided (#	0 ₂ /#BOD)							
	Required (#	0 ₂ /#BOD)							
	Minimum D.C	D. level (mg/l)							
Freeboard @ maximum depth (ft)									
	Top width of o								
		ment slope H/V							
	Outer embank	ment slope H/V							
	Type of inlet								
	Top drawoff le								
	Middle drawo								
	Bottom drawo	ff level (ft)							
_				0.17	0.17				
5.		ent: Design Air Temperatu		° F to	° F				
	Type Manufacturer & Model No. of Units Total IID on CEM (unit) Total IID on CEM (unit)								
	No. of Units HP or CFM/unit Total HP or CFM K value /day at design temperature ° C								
	K value /day at design temperature ° C Is a layout of the aeration system given on Schedule H1? Yes No								
6.	Is cold weather pr	rotection provided?	How?						
7.	Method of raw flo	ow diversion to cells							
8.	Method of raw flow diversion to cells Method of interconnection of cells								
9.	Provision to prevent drawoff of floating solids								
10.	Method of sampl	ing	-						
11.	Type of flow measurement Location								
12.	Fence Height No. strands of barbed wire: Top Bottom								
13.	Number of warning signs Location								
14.	Will pond be pre-filled to two-ft. level? Yes No								
15.	. Maximum allowable leakage rate in/day								
10	Method of testing		m.c.	Vac D N					
16.	Are specifications included for: a. Seeding Yes No Description No Description Soil sterilization No Description								
			bottom uniformity		=				
		d. Pond	•	Yes No	=				
			on protection	=	őH				
17.	Is service bypass		D' 1		о <u>П</u>				
	- J F 355	·	<i>6</i>						

DNR form 28K2 (Nov 00) 542-3092